



BISOL BMO 239-250 Wp

Monocrystalline Silicon Photovoltaic Modules



Made in EU



10-year product warranty



Strictly positive power output tolerances



Module presorting for a more profitable investment



Lightweight



All relevant certificates

WARRANTIES:

10-year product warranty
12 years on 90 % power output
25 years on 80 % power output

www.bisol.co.uk

Electrical Specifications @ STC (AM1.5, 1,000 W/m², 25 °C):

Module Type		BMO-239	BMO-245	BMO-250
Maximum Power	P_{MPP} [W]	239	245	250
Short Circuit Current	I_{SC} [A]	8.60	8.70	8.80
Open Circuit Voltage	V_{OC} [V]	37.5	37.8	37.9
MPP Current	I_{MPP} [A]	8.00	8.10	8.20
MPP Voltage	V_{MPP} [V]	29.9	30.2	30.5
Solar Cell Efficiency	η_C [%]	16.4	16.8	17.1
Module Efficiency	η_M [%]	14.6	15.0	15.3

Additional power classes available upon request.

Efficiency of modules at low irradiation (200 W/m²) decreases to 95.7 % of efficiency at STC.

Electrical Specifications:

Solar Cell Type	Monocrystalline Silicon
Solar Cell Dimensions	156 mm x 156 mm (6+")
Number of Cells	60 in series
Power Output Tolerance	0/+6 W
Current Temperature Coefficient	α + 2.9 mA/°C
Voltage Temperature Coefficient	β - 91.8 mV/°C
Power Temperature Coefficient	γ - 0.37 %/°C
Maximum System Voltage	1,000 V (Application Class A)
NOCT	44 °C
Maximum Reverse Current	13 A

Electrical Specifications under Real-life Conditions vs. STC (AM1.5, 800 W/m², Cell Temperature 44 °C):

Module Type		BMO-239	BMO-245	BMO-250
Maximum Power	P_{MPP} [W]	176	181	185
Short Circuit Current	I_{SC} [A]	6.99	7.07	7.15
Open Circuit Voltage	V_{OC} [V]	34.8	35.1	35.2
MPP Current	I_{MPP} [A]	6.47	6.55	6.63
MPP Voltage	V_{MPP} [V]	27.2	27.6	27.8
Solar Cell Efficiency	η_C [%]	15.1	15.5	15.8
Module Efficiency	η_M [%]	13.5	13.8	14.1



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Certificates:



Salt mist corrosion test (IEC 61701)

Ammonia test (IEC 62716)

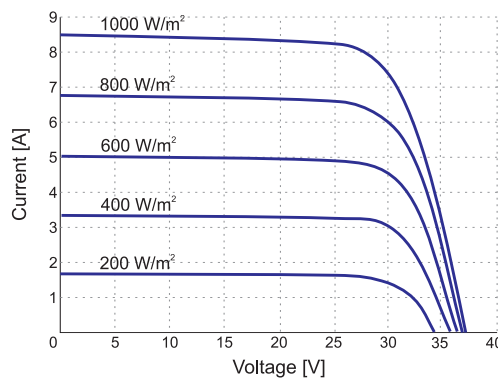
Recycled by:



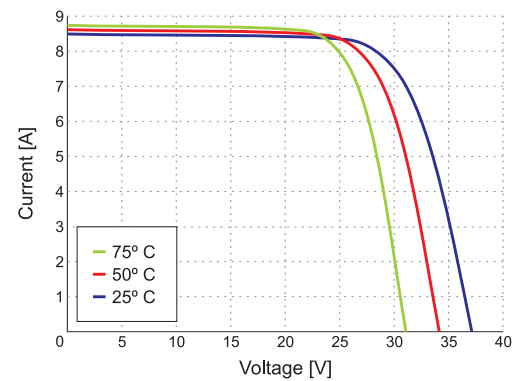
Mechanical Specifications:

Length x Width x Thickness	1,649 mm x 991 mm x 40 mm (64.92" x 39.02" x 1.575")
Weight	18.5 kg (40.79 lbs)
Junction Box, Connectors	Tyco (IP 65) with three bypass diodes
Certified Nominal Load	5,400 Pa

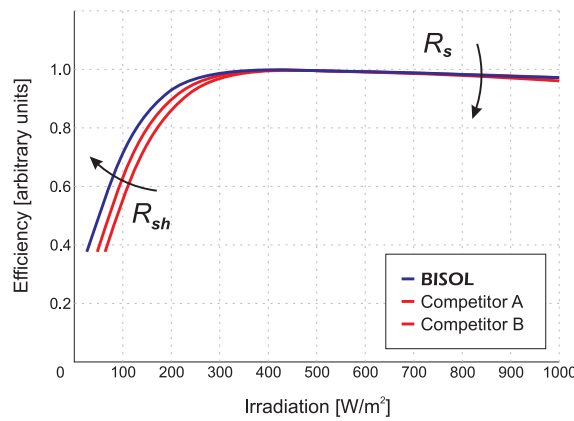
I-V Curve at Various Irradiation Levels



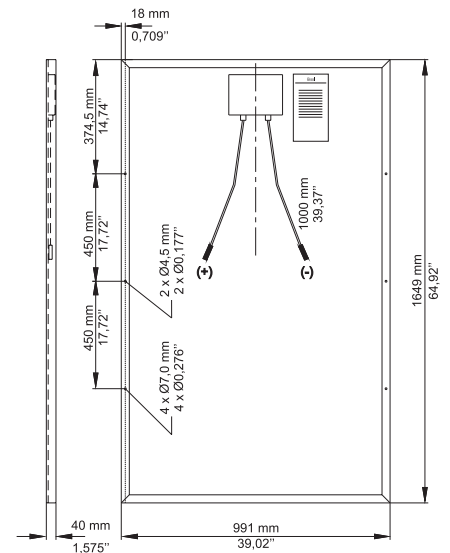
I-V Curve at Various Cell Temperatures



Effective Efficiency



Dimensions



Dealer Information:

